

**AMENDMENTS TO THE CLAIMS**

The following is a complete, marked up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

**Listing of Claims**

1. (Currently Amended) A computer-readable recording medium having a data structure for managing reproduction of at least video data representing multiple reproduction paths, comprising:

a data area storing at least video data as a transport stream in more than one file, each file associated with a different one of the multiple reproduction paths, and the files being interleaved with one another; and

a navigation area storing at least one navigation list, the at least one navigation list including ~~one or more~~ at least a first navigation data item[[s]] and a second navigation data item, the at least one navigation list controlling a reproduction order of the ~~one or more~~ navigation data items, ~~at least one~~ the first navigation data item referencing more than one map ~~and including an indicator for indicating that the corresponding at least one navigation data item is provided for, each map for managing one of~~ the multiple reproduction paths, the first navigation data item including an indicator indicating that the first navigation data item references more than one map, the second data item referencing a single map for managing a single reproduction path, the second navigation data item including an indicator indicating that the second navigation data item

references a single map, each map being associated with one of the files and  
providing position data for the video data of the ~~associated file~~ associated with  
the reproduction path managed by the map.

2. (Previously Presented) The recording medium of claim 1, wherein each file is divided into data blocks, and the files are interleaved with one another on a data block by data block basis.

3. (Original) The recording medium of claim 2, wherein each data block represents at least an intra-coded picture of video data.

4. (Original) The recording medium of claim 3, wherein each data block represents at least one group of pictures (GOP).

5. (Cancelled)

6. (Currently Amended) The recording medium of claim 1, wherein ~~each of the one or more~~ the first and the second navigation data items provide navigation information for reproducing at least one of the files.

7-13. (Cancelled)

14. (Original) The recording medium of claim 1, wherein each

reproduction path represents a digital channel.

15. (Original) The recording medium of claim 1, wherein each reproduction path represents a sub-channel of an RF channel.

16. (Currently Amended) A method of recording a data structure for managing reproduction of at least video data representing multiple reproduction paths, comprising:

recording at least video data as a transport stream in more than one file on the recording medium, each file associated with a different one of the multiple reproduction paths, and the files being interleaved with one another; and

recording at least one navigation list, one or more navigation items and a plurality of maps, the at least one navigation list including ~~one or more~~ at least a first navigation data item[[s]] and a second navigation data item, the at least one navigation list controlling a reproduction order of the ~~one or more~~ navigation data items, ~~at least one~~ the first navigation data item referencing more than one map and ~~including an indicator for indicating that the corresponding at least one navigation data item is provided for~~ managing a plurality of the multiple reproduction paths, the first navigation data item including an indicator indicating that the first navigation data item references more than one map, the second data item referencing a single map for managing a single reproduction path, the second navigation data item including an indicator indicating that the second navigation data item references a single map, each map being associated

~~with one of the files and~~ providing position data for the video data of the associated file associated with the reproduction path managed by the map.

17. (Currently Amended) A method of reproducing a data structure for managing reproduction duration of at least video data representing multiple reproduction paths, comprising:

reading at least one navigation list, one or more navigation items and a plurality of maps, the at least one navigation list including ~~one or more~~ at least a first navigation data item[[s]] and a second navigation data item, the at least one navigation list controlling a reproduction order of the ~~one or more~~ navigation data items, ~~at least one~~ the first navigation data item referencing more than one map and ~~including an indicator for indicating that the corresponding at least one navigation data item is provided for~~ managing a plurality of the multiple reproduction paths, the first navigation data item including an indicator indicating that the first navigation data item references more than one map, the second data item referencing a single map for managing a single reproduction path, the second navigation data item including an indicator indicating that the second navigation data item references a single map, each map being associated ~~with one of the files and~~ providing position data for the video data of the associated file associated with the reproduction path managed by the map; and

reproducing at least the video data as a transport stream in more than one file from a recording medium, each file associated with a different one of the multiple reproduction paths, and the files being interleaved with one another.

18. (Currently Amended) An apparatus for recording a data structure for managing reproduction duration at least video data representing multiple reproduction paths, comprising:

a pickup configured to record data on a recording medium; and  
a controller, operably coupled to the pickup, configured to control recording at least video data as a transport stream in more than one file on the recording medium, each file associated with a different one of the multiple reproduction paths, and the files being interleaved with one another, and the controller configured further to control recording at least one navigation list, one or more navigation items and a plurality of maps, the at least one navigation list including ~~one or more~~ at least a first navigation data item[[s]] and a second navigation data item, the at least one navigation list controlling a reproduction order of the ~~one or more~~ navigation data items, ~~at least one~~ the first navigation data item referencing more than one map ~~and including an indicator for indicating that the corresponding at least one navigation data item is provided for,~~ each map for managing one of the multiple reproduction paths, the first navigation data item including an indicator indicating that the first navigation data item references more than one map, the second data item referencing a single map for managing a single reproduction path, the second navigation data item including an indicator indicating that the second navigation data item references a single map, each map being associated with one of the files and

providing position data for the video data of the ~~associated file~~ associated with the reproduction path managed by the map.

19. (Currently Amended) An apparatus for reproducing a data structure for managing reproduction duration of at least video data representing multiple reproduction paths, comprising:

a pickup configured to to reproduce data recorded on a recording medium;  
and

a controller, operably coupled to the pickup, configured to control reproducing at least one navigation list, one or more navigation items and a plurality of maps, the at least one navigation list including ~~one or more~~ at least a first navigation data item[[s]] and a second navigation data item, the at least one navigation list controlling a reproduction order of the ~~one or more~~ navigation data items, ~~at least one~~ the first navigation data item referencing more than one map and ~~including an indicator for indicating that the corresponding at least one navigation data item is provided for,~~ each map for managing one of the multiple reproduction paths, the first navigation data item including an indicator indicating that the first navigation data item references more than one map, the second data item referencing a single map for managing a single reproduction path, the second navigation data item including an indicator indicating that the second navigation data item references a single map, each map being associated with one of the files and providing position data for the video data of the ~~associated file~~ associated with the reproduction path managed by the map, and

the controller configured further to control reproducing at least video data as a transport stream in more than one file from the recording medium according to the reproduced the at least one navigation list, each file associated with a different one of the multiple reproduction paths, and the files being interleaved with one another.

20. (Currently Amended) A method for creating a data structure for managing reproduction of at least video data representing multiple reproduction paths, comprising:

generating at least video data as a transport stream in more than one file, each file associated with a different one of the multiple reproduction paths, and the files being interleaved with one another; and

generating at least one navigation list for managing reproduction of at least video data, one or more navigation items and a plurality of maps, the at least one navigation list including ~~one or more~~ at least a first navigation data item[[s]] and a second navigation data item, the at least one navigation list controlling a reproduction order of the ~~one or more~~ navigation data items, ~~at least one~~ the first navigation data item referencing more than one map ~~and including an indicator for indicating that the corresponding at least one navigation data item is provided for,~~ each map for managing one of the multiple reproduction paths, the first navigation data item including an indicator indicating that the first navigation data item references more than one map, the second data item referencing a single map for managing a single reproduction path, the second navigation data

item including an indicator indicating that the second navigation data item references a single map, each map being associated with one of the files and providing position data for the video data of the associated file associated with the reproduction path managed by the map.

21. (Previously Presented) The method of claim 16, wherein each file is divided into data blocks, and the files are interleaved with one another on a data block by data block basis.

22. (Previously Presented) The method of claim 21, wherein each data block represents at least an intra-coded picture of video data.

23. (Cancelled)

24. (Previously Presented) The method of claim 16, wherein each reproduction path represents one of a digital channel and a sub-channel of an RF channel.

25. (Previously Presented) The method of claim 17, wherein each file is divided into data blocks, and the files are interleaved with one another on a data block by data block basis.

26. (Previously Presented) The method of claim 25, wherein each data



block represents at least an intra-coded picture of video data.

27. (Cancelled)

28. (Previously Presented) The method of claim 17, wherein each reproduction path represents one of a digital channel and a sub-channel of an RF channel.

29. (Previously Presented) The apparatus of claim 18, wherein the controller is configured to control recording each file being divided into data blocks, and the files are interleaved with one another on a data block by data block basis.

30. (Previously Presented) The apparatus of claim 29, wherein each data block represents at least an intra-coded picture of video data.

31. (Cancelled)

32. (Previously Presented) The apparatus of claim 18, wherein the controller is configured to control recording transport packets of each reproduction path representing one of a digital channel and a sub-channel of an RF channel.

33. (Previously Presented) The apparatus of claim 19, wherein the controller is configured to control reproducing each file being divided into data blocks, and the files are interleaved with one another on a data block by data block basis.

34. (Previously Presented) The apparatus of claim 33, wherein each data block represents at least an intra-coded picture of video data.

35. (Cancelled)

36. (Previously Presented) The apparatus of claim 19, wherein the controller is configured to control reproducing transport packets of each reproduction path representing one of a digital channel and a sub-channel of an RF channel.